

According to Regulation (EU) No 2015/830

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : ALEFIA PARFUMCARD MIRABEAU

Product code : ALE-017

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Application : SU21 Consumer product. PC3 Air care products. Airfreshener.

### 1.3. Details of the supplier of the safety data sheet

Supplier : Dovox B.V.

Computerweg 3

3542 DP UTRECHT, The Netherlands

 Telephone
 : +31-30-7116 824

 Fax
 : +31-30-3100 141

 E-mail
 : info@dovox.nl

 Website
 : www.dovox.nl

### 1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31-30-7116 824 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

National Poisons Information Service +44 344 892 0111 (24/7)

# SECTION 2 HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

CLP classification : Skin irritation, category 2. Skin sensitization, category 1. Hazardous to the aquatic environment —

(1272/2008/EC) Acute category 1. Hazardous to the aquatic environment — Chronic category 2.

Human health hazards : Causes skin irritation. May cause an allergic skin reaction. Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.

Environmental hazards : Very toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :





Signal word : Warning

H- and P-phrases : H317 May cause an allergic skin reaction.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P280 gloves Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P362+P364 Take off contaminated clothing and wash it before reuse.

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P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

 $: Contains: 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl) ethan-1-one \ ; \ 3-(p-Methoxyphenyl)-2-methylpropionaldehyde \ ; \ d-Limonene \ ; \ 7-Hydroxycitronellal \ ; \ Citronellol \ ; \ 3-(p-Methoxyphenyl)-2-methylpropionaldehyde \ ; \ d-Limonene \ ; \ 7-Hydroxycitronellal \ ; \ Citronellol \ ; \ 3-(p-Methoxyphenyl)-2-methylpropionaldehyde \ ; \ d-Limonene \ ; \ 7-Hydroxycitronellal \ ; \ Citronellol \ ; \ 3-(p-Methoxyphenyl)-2-methylpropionaldehyde \ ; \ d-Limonene \ ; \ 7-Hydroxycitronellal \ ; \ Citronellol \ ; \ 3-(p-Methoxyphenyl)-2-methylpropionaldehyde \ ; \ d-Limonene \ ; \ 7-Hydroxycitronellal \ ; \ Citronellol \ ; \ 3-(p-Methoxyphenyl)-2-methylpropionaldehyde \ ; \ 3-(p-Methoxyphenylpropionaldehyde)-2-methylpropionaldehyde \ ; \ 3-(p-Meth$ 

Methylcyclopentadecenone.

#### 2.3. Other hazards

Other information : The product does not need to carry all label elements required by Article 17 of Regulation (EC) No

1272/2008 on the basis of Annex I, point 1.5.2.1. Exemption for packages where the contents do not exceed 125 ml. Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Product description : Mixture. Information on hazardous substances:

Substance name	Concentration	CAS nr.	EC number	Remark	REACH nr.
	(w/w) (%)				
Benzyl benzoate	25 - < 50	120-51-4	204-402-9		01-2119976371-33
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	10 - < 20	54464-57-2	259-174-3		01-2119489989-04
tetramethyl-2-naphtyl)ethan-1-one					
2-Ethyl-3-hydroxy-4-pyrone	1 - < 5	4940-11-8	225-582-5		
Reaction mass of: (E)-	2,5 - < 5	34902-57-3	422-320-3		01-0000016883-62
oxacyclohexadec-12-en-2-one; (E)-					
oxacyclohexadec-13-en-2-one					
Tetrahydro-2-isobutyl-4-methylpyran-4-	1 - < 5	63500-71-0	405-040-6		01-2119455547-30
ol, mixed isomers (cis and trans)					
3,7-Dimethylnona-1,6-dien-3-ol	1 - < 5	10339-55-6	233-732-6		01-2119969272-32
3-(p-Methoxyphenyl)-2-	1 - < 5	5462-06-6	226-749-5		
methylpropionaldehyde					
d-Limonene	1 - < 2,5	5989-27-5	227-813-5		01-2119529223-47
7-Hydroxycitronellal	1 - < 5	107-75-5	203-518-7		01-2119973482-31
Citronellol	0,1 - < 1	106-22-9	203-375-0		01-2119453995-23
(Z)-3-hexenyl salicylate	0,25 - < 1	65405-77-8	265-745-8		01-2119987320-37
3-Methylcyclopentadecenone	0,25 - < 1	82356-51-2	429-900-5		01-0000017618-62
Oxydipropanol	0,1 - < 1	25265-71-8	246-770-3	MAC	

Substance name	Hazard Class	H-phrases	Pictograms	
Benzyl benzoate	Acute Tox. 4; Aquatic	H302; H400; H411	GHS07; GHS09	M (acute) = 1
	Acute 1; Aquatic			
	chronic 2			
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	Skin Irrit. 2; Skin Sens	H315; H317; H410	GHS07; GHS09	M (chronic) = 1
tetramethyl-2-naphtyl)ethan-1-one	1B; Aquatic Chronic 1			
2-Ethyl-3-hydroxy-4-pyrone	Acute Tox. 4	H302	GHS07	
Reaction mass of: (E)-	Aquatic Acute 1;	H400; H410	GHS09	M (acute) = 1
oxacyclohexadec-12-en-2-one; (E)-	Aquatic Chronic 1			M (chronic) = 1
oxacyclohexadec-13-en-2-one				
Tetrahydro-2-isobutyl-4-methylpyran-4-	Eye Irrit. 2	H319	GHS07	
ol, mixed isomers (cis and trans)				
3,7-Dimethylnona-1,6-dien-3-ol	Skin Irrit. 2; Eye Irrit: 2	H315; H319	GHS07	
3-(p-Methoxyphenyl)-2-	Skin Sens. 1B	H317	GHS07	
methylpropionaldehyde				

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d-Limonene	Flam. Liq. 3; Asp. Tox.	H226; H304; H315;	GHS02; GHS07;	M (acute) = 1
	1; Skin Irrit. 2; Skin	H317; H400; H410	GHS08; GHS09	, ,
	Sens. 1B; Aquatic			
	Acute 1; Aquatic			
	Chronic 1			
7-Hydroxycitronellal	Skin Sens. 1B; Eye Irrit.	H317; H319	GHS07	
	2			
Citronellol	Eye Irrit. 2; Skin Irrit. 2;	H319; H317; H315	GHS07	
	Skin Sens. 1B			
(Z)-3-hexenyl salicylate	Aquatic Acute 1;	H400; H410	GHS09	M (acute) = 1
	Aquatic Chronic 1			M (chronic) = 1
3-Methylcyclopentadecenone	Skin Sens. 1B; Aquatic	H317; H400; H410	GHS07; GHS09	M (acute) = 1
	Acute 1; Aquatic			M (chronic) = 1
	Chronic 1			
Oxydipropanol				

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

### SECTION 4 FIRST-AID MEASURES

### 4.1. Description of first aid measures

First aid measures

Inhalation : Not applicable under normal conditions of use. Consult a doctor if victim feels unwell.

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up.

Consult a doctor if irritation occurs.

Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor if

irritation persists.

Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth

to an unconscious person. Consult a doctor if victim feels unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation : No specific effects and/or symptoms are known.

Skin contact : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction.

Eye contact : May cause stinging of eyes and redness.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

# 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

# SECTION 5 FIRE-FIGHTING MEASURES

# 5.1. Extinguishing media

Extinguishing media

Suitable : Carbondioxide (CO2). Foam. Dry chemical. Water fog.

Not suitable : Water jet.

### 5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known.

Hazardous thermal : Carbon monoxide may be evolved if incomplete combustion occurs.

decomposition products

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#### 5.3. Advice for firefighters

Special protective

: Use adequate respiratory equipment in case of insufficient ventilation.

equipment for fire-fighters

### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with

spilled or released material. Vapours are heavier than air. Build up (of gasses) in low areas involves

risk of suffocation.

### 6.2. Environmental precautions

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water. In case of large spills:

contain with dike. Waste product should not be allowed to contaminate soil or water.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to

occur.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away

remainder with plenty of water and soap.

### 6.4. Reference to other sections

Reference to other sections: See also section 8.

# SECTION 7 HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

Avoid contact with skin and eyes.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.

Recommended packaging : Keep only in the original container.

Non recommended : None known.

packaging

7.3. Specific end use(s)

Use : Use only as directed.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Occupational exposure limits

: Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have

not been established for this product.

Workplace exposure limits (mg/m³):

(ma/m3) (ma/m3)	al name Country TWA 8 hour STEL 15 min	Comments
(mg/ms)	(mg/m3) (mg/m3)	

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d-Limonene		110	-		
Oxydipropanol		67	-		
Derived no-effect level (DNEL) for work	kers:				
Chemical name	Route of	DNEL, short-te	rm	DNEL, long-term	
	exposure				
		Local effect	Systemic effect	Local effect	Systemic effect
Benzyl benzoate	Dermal				2,6 mg/kg bw/day
	Inhalation		102 mg/m3		5,1 mg/m3
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	Dermal	0,1011 mg/kg			1,73 mg/kg bw/day
tetramethyl-2-naphtyl)ethan-1-one		bw			
	Inhalation				1,76 mg/m3
3,7-Dimethylnona-1,6-dien-3-ol	Dermal	16 mg/kg bw		16 mg/kg bw/day	2,7 mg/kg bw/day
	Inhalation		18 mg/m3		3 mg/m3
d-Limonene	Inhalation				33,3 mg/m3
7-Hydroxycitronellal	Dermal				1,9 mg/kg bw/day
	Inhalation				18 mg/m3
Citronellol	Dermal				45,8 mg/kg bw/day
	Inhalation				161,6 mg/m3
(Z)-3-hexenyl salicylate	Dermal				0,9 mg/kg bw/day
	Inhalation				1,59 mg/m3
Oxydipropanol	Dermal				84 mg/kg bw/day
	Inhalation				238 mg/m3
Derived no-effect level (DNEL) for con-	sumers.				,
Chemical name	Route of	DNEL, short-te	rm	DNEL, long-term	,
one means	exposure	BIVEE, OHOIC TO		l l l l l l l l l l l l l l l l l l l	
	охросиго	Local effect	Systemic effect	l ocal effect	Systemic effect
Benzyl benzoate	Dermal				1,3 mg/kg bw/day
2011291 201120410	Inhalation		25 mg/m3		1,25 mg/m3
	Oral		78 mg/kg bw		0,4 mg/kg bw/day
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	Dermal	0,0506 mg/kg	r o mg/kg ou		0,86 mg/kg bw/day
tetramethyl-2-naphtyl)ethan-1-one	Domina.	bw			lo,oo mg/kg bii/day
terramenty 2 hapmy/jernam i one	Inhalation	,			0,43 mg/m3
	Oral				0,25 mg/kg bw/day
3,7-Dimethylnona-1,6-dien-3-ol	Dermal	16 mg/kg bw	2,7 mg/kg bw	16 ma/ka bw/day	1,4 mg/kg bw/day
	Inhalation	To mg/kg bw	4,4 mg/m3	l ing/kg bw/day	0,74 mg/m3
	Oral		1,3 mg/kg bw		0,2 mg/kg bw/day
d-Limonene	Inhalation		11,5 mg/kg bw		
u-Limonene					8,33 mg/m3
7-Hydroxycitronellal	Oral Dermal				4,76 mg/kg bw/day
<i>i</i> -i iyuruxyuluun <del>u</del> llal	1				1,1 mg/kg bw/day
	Inhalation				5,4 mg/m3
Citropollol	Oral				0,6 mg/kg bw/day
Citronellol	Dermal				27,5 mg/kg bw/day
	Inhalation				47,8 mg/m3
(7) 0 10 0 0 10 10 10	Oral				13,75 mg/kg bw/day
(Z)-3-hexenyl salicylate	Dermal				0,45 mg/kg bw/day
	Inhalation				0,39 mg/m3
	ا ما				
	Oral				0,23 mg/kg bw/day
Oxydipropanol	Dermal				51 mg/kg bw/day
Oxydipropanol	1				

Fresh water

0,017 mg/l

Marine water

0,002 mg/l

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Route of exposure

Water

Predicted no-effect concentration (PNEC):

Chemical name

Benzyl benzoate



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1	Sediment	10,66 mg/kg	1,07 mg/kg	
İ	STP			100 mg/l
	Soil			2,12 mg/kg
3,7-Dimethylnona-1,6-dien-3-ol	Water	0,023 mg/l	0,0023 mg/l	
	Sediment	0,223 mg/kg	0,0223 mg/kg	
	Intermittent water			0,23 mg/l
	STP			10 mg/l
	Soil			0,031 mg/kg
	Oral			8,53 mg/kg food
d-Limonene	Water	0,0054 mg/l	0,0005 mg/l	
	Sediment	1,32 mg/kg	0,13 mg/kg	
	STP			1,8 mg/l
	Soil			0,262 mg/kg
İ	Oral			3,33 mg/kg food
Citronellol	Water	0,0024 mg/l	0,00024 mg/l	
	Sediment	0,0256 mg/kg	0,00256 mg/kg	
	Intermittent water			0,024 mg/l
	STP			580 mg/l
	Soil			0,00371 mg/kg
(Z)-3-hexenyl salicylate	Water	0,00061 mg/l	0,000061 mg/l	
	Sediment	0,11 mg/kg	0,011 mg/kg	
	Intermittent water			0,0061 mg/l
	STP			10 mg/l
	Soil			0,0217 mg/kg
	Oral			40 mg/kg food
Oxydipropanol	Water	0,1 mg/l	0,01 mg/l	
	Sediment	0,238 mg/kg	0,0238 mg/kg	
	Intermittent water			1 mg/l
	STP			1000 mg/l
	Soil			0,0253 mg/kg
	Oral			313 mg/kg food

# 8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

# Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN

365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.

Respiratory protection: Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale

exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance

with EN 140.

Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. 0,13 mm.

Indication of permeation breakthrough time: 6 hours.

Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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## 9.1. Information on basic physical and chemical properties

Appearance : Liquid. Impregnated material.

Colour : Light yellow.
Odour : Perfumed.
Odour threshold : Not known.

pH : Not applicable. Waterfree product.

Solubility in water : Not soluble.
Partition coefficient (n- : Not known.

octanol/water)

Flash point :  $> 100 \, ^{\circ}\text{C}$ 

Flammability (solid, gas) : Not applicable. Liquid. See flashpoint.

Auto ignition temperature : > 240 °C Boiling point/boiling range : > 100 °C Melting point/melting range : < 0 °C

Explosive properties : None known. Does not contain explosives.

Explosion limits (% in air) : Not known. Lower explosion limit in air (%): 0,7 ( d-Limonene )

(air = 1)

Upper explosion limit in air (%): 6,5

The product contains < 10% substances having an aspiration hazard.

Oxidising properties : Not applicable. Does not contain oxidizing substances.

Decomposition temperature : Not applicable. Viscosity (20°C) : Not known.

Viscosity (40°C) : Not relevant.

Vapour pressure (20°C) : Not known.

Vapour density (20°C) : > 1

Relative density (20°C) : 0,9 g/ml

Evaporation rate : Not known. (n-butyl acetate = 1)

### SECTION 10 STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known.

products

# SECTION 11 TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

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No toxicological research has been carried out on this product.

Inhalation

Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 37 %. ATE: > 5 mg/l. Low toxicity. Not

classified - based on available data, the classification criteria are not met.

Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.

Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available

data, the classification criteria are not met.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Skin contact

Acute toxicity : Calculated LD50: > 4711 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin. Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Eye contact

Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not

met.

Ingestion

Acute toxicity : Calculated LD50: > 2700 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Aspiration : Contains a substance/substances with an aspiration hazard. Not classified - based on available

data, the classification criteria are not met. Impregnated material with minimal content: Ingestion is

unlikely to occur.

Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available

data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not

classified - based on available data, the classification criteria are not met.

### Toxicological information:

Chemical name	Property		Method	Test animal
Benzyl benzoate	Skin irritation	Slightly irritant		Rabbit
	Skin sensitisation	> 12500 ug/cm2	OECD 429	Mouse
	LD50 (dermal)	4000 mg/kg bw		Rabbit
	NOAEL (development) - estimate	100 mg/kg.d		Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LC50 (inhalation) - estimate	> 5570 mg/m3	Read across	
	LD50 (oral)	1700 mg/kg bw		Rat
	NOAEL (oral) - estimate	460 mg/kg bw/d		Rat
	Genotoxicity - estimate	Not genotoxic	Read across	Chinese Hamster
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8- tetramethyl-2-naphtyl)ethan-1-one	Skin irritation	Non-irritant		Rabbit
	Skin sensitisation	6825 ug/cm2	OECD 429	Mouse
	LD50 (oral)	> 5000 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rat

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NOAEL (development, oral)   LD50 (oral)   LD50 (oral)   LD50 (dermal)   LD50		<b>b.</b>	h		
150 mg/kg bw		Mutagenicity	Not mutagenic	OECD 471	
155 (gral)		, ,	480 mg/kg bw/d	OECD 414	Rat
LD50 (dermal)		,	4450 "		<u> </u>
NOAEL (cfraility, cra)   200 mg/kg bw/d   200 mg/kg bw/	2-Ethyl-3-hydroxy-4-pyrone				
NOAEL (fertility, oral)   Second pixel bwild   Se					
Genotoxicity - in vitro   NOEL (carcinogenicity oral)   NoI oral)   No					Rat
NOEL (carcinogenicity, prai)   NOEL (carcinogenicity, prai)   Noethern   No		NOAEL (fertility, oral)	> 200 mg/kg bw/d		
Oral   Mutagenicity   Negative   Somo mg/kg bw					
Oral   Mutagenicity   Negative   So00 mg/kg bw		NOEL (carcinogenicity,	> 200 mg/kg bw/d		Rat
LD50 (oran)		oral)			
LD50 (oran)	į	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
LD50 (dermal)   S000 mg/kg bw	3,7-Dimethylnona-1,6-dien-3-ol				Rat
NOAEL (dermal) - estimate			, ,		Rabbit
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Genotoxicity - estimate   Skin irritation   Eye irritation   Eye irritation   Irritant		<u> </u>	Not mutagonia	OECD 471	Calmonalla typhimurium
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Eye irritation				Read across	Dobbit
LD50 (dermal)   South of the proposed of the					
D50 (oral)		1 '			
LD50 (oral)   Skin sensitisation   Mutagenicity   Sensitizing.   OECD 406   Guinea pig   OECD 471   Salmonella typhimurium   Salmonella typhimurium   OECD 471		LD50 (dermal)	> 5000 mg/kg bw		Rabbit
Skin sensitisation   Mutagenicity	methylpropionaldehyde				
Mutagenicity			"		
Genotoxicity - in vivo   NOEL (carcinogenicity, oral)   2000 mg/kg bw/d   300 mg/kg bw/d			1		
NOEL (carcinogenicity, oral)  Eye irritation Mutagenicity Negative NOAEL (development, oral) Skin sensitisation NOAEL (development, oral) Skin irritation LD50 (dermal) LD50 (dermal) LD50 (dermal) Skin irritation NOAEL (roal) T-Hydroxycitronellal  NOECD 405 Rabbit Rat  OECD 471  Skin sensitisation NOAEL (development, oral) Skin irritation LD50 (dermal) LD50 (dermal) LD50 (oral) Skin irritation NOAEL (roal) Skin irritation LD50 (dermal) LD50 (dermal) LD50 (dermal) Skin irritation NOAEL (roal) Skin irritation LD50 (dermal) Skin irritation NOAEL (oral) Skin sensitisation Skin sensitisation Skin irritation Skin irritation Skin irritation Non-irritant LD50 (oral) Skin irritation Non-irritant LD50 (oral) Skin irritation Non-irritant LD50 (oral) Skin irritation Non-irritant LD50 (oral) Skin irritation Non-irritant Non-irritant Not genotoxic Not genotoxic Not carcinogenic Vot carcinogenic Skin sensitisation Not genotoxic				OECD 471	Salmonella typhimurium
Oral   Eye irritation	d-Limonene	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
Eye irritation   Mutagenicity   Negative   OECD 405   Negative   OECD 471   OECD 472   OECD 429   Mouse   OECD 472   OECD 473   OECD 474   OECD 475   OE		NOEL (carcinogenicity,	> 300 mg/kg bw/d	OECD 451	Rat
Mutagenicity   Negative   OECD 471   OECD 429   Mouse		oral)			
Skin sensitisation   NOAEL (development, oral)   Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rabbit   LD50 (oral)   4400 mg/kg bw     Rat   Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rat   Skin irritation   Irritant   LD50 (dermal)   Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rat   Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rabbit   Skin sensitisation   Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rabbit   Skin irritation   Irritant   Skin irritation   Irritant   Skin irritation   Irritant   Skin irritation   Skin i		Eye irritation	Non-irritant	OECD 405	Rabbit
Skin sensitisation   NOAEL (development, oral)   Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rabbit   LD50 (oral)   4400 mg/kg bw     Rat   Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rat   Rat   Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rat   Rat   Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rabbit   Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rabbit   Skin irritation   Irritant   Skin irritation   Irritant   Skin irritation   Irritant   Skin irritation   Shin irritation   Skin irritation		Mutagenicity	Negative	OECD 471	
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Oral   Skin irritation   Irritant     Rabbit   LD50 (dermal)   2000 mg/kg bw     Rat   Rat   Skin irritation   Irritant   LD50 (dermal)   150 mg/kg bw     Rat   R			_		Rat
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7-Hydroxycitronellal Skin irritation   Irritant   LD50 (dermal)   > 2000 mg/kg bw     Rabbit   Skin sensitisation   5612 ug/cm2   OECD 429   Mouse   Skin irritation   Skin irritation   Irritant   Skin irritation   Irritant   LD50 (oral)   > 5000 mg/kg bw     Rat   NOEL (oral)   250 mg/kg bw/d   Genotoxicity - in vivo   Not genotoxic   Not carcinogenic   Not carcinogenic   Skin sensitisation   10875 ug/cm2   OECD 471   Salmonella typhimurium   Citronellol   Salmonella typhimurium   NOAEL (oral)   > 500 mg/kg bw/d   OECD 471   Salmonella typhimurium   NOAEL (oral)   > 50 mg/kg bw/d   Rat	<u> </u>				Rat
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Skin irritation			1	OECD 404	
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Genotoxicity - in vivo NOEL (carcinogenicity) - estimate Mutagenicity Citronellol  Genotoxicity - in vitro Skin sensitisation Not genotoxic Skin sensitisation Not genotoxic Share Mouse  Mouse					Rat
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- estimate Mutagenicity Negative OECD 471 Salmonella typhimurium Citronellol Genotoxicity - in vitro Not genotoxic Skin sensitisation 10875 ug/cm2 OECD 429 Mouse Mutagenicity Not mutagenic Not mutagenic Not mutagenic NoAEL (oral) > 50 mg/kg bw/d Rat			_		Mouse
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Skin sensitisation 10875 ug/cm2 OECD 429 Mouse  Mutagenicity Not mutagenic OECD 471 Salmonella typhimurium  NOAEL (oral) > 50 mg/kg bw/d Rat	Citronellol	Genotoxicity - in vitro	Not genotoxic		į į
Mutagenicity Not mutagenic OECD 471 Salmonella typhimurium NOAEL (oral) > 50 mg/kg bw/d Rat		Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
NOAEL (oral) > 50 mg/kg bw/d Rat		Mutagenicity	-	OECD 471	Salmonella typhimurium
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
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	LD50 (oral)	3450 mg/kg bw	<b> </b>	Rat
	LD50 (dermal)	2650 mg/kg bw		Rabbit
	NOAEL (fertility,	300 mg/kg bw/d	OECD 421	Rat
	dermal)			
	NOAEL (developmental	> 300 mg/kg bw/d	OECD 421	Rat
	toxicity, dermal)			
	Skin irritation	Moderately irritant	Patch test	Human
	Eye irritation	Moderately irritant		Rabbit
3-Methylcyclopentadecenone	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Skin irritation	Non-irritant	OECD 404	Rabbit
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	LD50 (oral)	> 2000 mg/kg bw		Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 415	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit

# SECTION 12 ECOLOGICAL INFORMATION

# 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Very toxic to aquatic organisms. Calculated LC50 (fish): 2 mg/l. Calculated EC50 (waterflea):

Contains 7 % of components with unknown hazards to the aquatic environment.

### 12.2. Persistence and degradability

Persistence – degradability: May cause long-term adverse effects in the aquatic environment.

# 12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility.

### 12.5. Results of PBT and vPvB ass

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

### 12.6. Other adverse effects

Other information : Not applicable.

### Ecological information:

Chemical name	Property		Method	Test animal
Benzyl benzoate	IC50 (algea)	0,475 mg/l	OECD 201	Pseudokirchnerella
				subcapitata
	LC0 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio
	LC100 (fish)	2,84 mg/l	OECD 203	Brachydanio rerio
	Ultimate aerobic	94 %	OECD 301 F	
	biodegradation (%)			
	LC50 (fish)	2,32 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	3,09 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) -	0,258 mg/l.d	OECD 211	Daphnia magna
	chronic			
	Log P(ow)	3,97		
	BCF	24		

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1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one	EC50 (waterflea)	1,38 mg/l	OECD 202	<b> </b>
	IC50 (algea)	> 2,6 mg/l	OECD 201	
	LC50 (fish)	1,3 mg/l	OECD 203	
	Log P(ow)	5,23		
	BCF	600		
Reaction mass of: (E)-	NOEC (fish)	0,52 mg/l	OECD 203	Oncorhynchus mykiss
oxacyclohexadec-12-en-2-one; (E)-				
oxacyclohexadec-13-en-2-one				
	LC50 (fish)	2,0 mg/l	OECD 203	Oncorhynchus mykiss
	EC50 (waterflea)	0,48 mg/l	OECD 202	Daphnia magna
	Log P(ow)	5,02		
d-Limonene	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
į	EC50 (waterflea)	0,36 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic	> 92 %		'
	biodegradation (%)			
	NOEC (waterflea) -	0,15 mg/l.d		Daphnia magna
	chronic			
	Log P(ow)	4,38		
(Z)-3-hexenyl salicylate	Ultimate aerobic	89 %	OECD 301 F	
	biodegradation (%)			
	LC50 (fish) - estimate	1,13 mg/l		Brachydanio rerio
į	EC50 (waterflea)	3,7 mg/l	OECD 202	Daphnia magna
İ	IC50 (algea)	0,61 mg/l	OECD 201	Desmodesmus
		, ,		subspicatus
İ	Log P(ow)	4.57		'
3-Methylcyclopentadecenone	LC50 (fish)	0,22 mg/l		
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ultimate aerobic	43 %	OECD 301 D	
	biodegradation (%)			
	EC50 (waterflea)	0,39 mg/l		Daphnia magna
	IC50 (algea)	> 30 mg/l		
	Log P(ow)	5,91		

### SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat

product residues, impregnated wipes and non-empty pack as hazardous waste.

Additional warning : None.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a

waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be

complied with.

# SECTION 14 TRANSPORT INFORMATION

# 14.1. UN number

UN nr. : UN 3082

# 14.2. UN proper shipping name

Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate; Reaction

mass of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one)

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Transport name (IMDG, : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate; (E)-

IATA) oxacyclohexadec-12-en-2-one, (E)-oxacyclohexadec-13-en-2-one)

# 14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : 9
Classification code : M6
Packaging group : III
Danger label : 9



Other information : Not intended for carriage by tank-vessels on inland waterways.

IMDG (sea)

Class : 9 Packaging group : III

EmS (fire / spill) : F - A / S - F

Marine pollutant : Yes

IATA (air)

Class : 9

### 14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to

the transport of this product.

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO)

instruments. Packaged liquids are not considered bulk.

# SECTION 15 REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other

regulations.

#### 15.2. Chemical safety assessment

Chemical safety :

assessment

: Not applicable.

#### SECTION 16 OTHER INFORMATION

### 16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

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Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (\*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

CLP : Classification, Labeling & Packaging

CMR : Carcinogenic, Mutagenic or toxic for Reproduction

EEC : European Economic Community

IATA : International Air Transport Association

IBC code : International Bulk Chemical Code

IMDG : International Maritime Dangerous Goods Code LD50/LC50 : Lethal Dose/Concentration for 50% of a population

MAC : Maximum Allowable Concentration

MARPOL : International Convention for the Prevention of Pollution From Ships

NO(A)EL : No Observed (Adverse) Effect Level

OECD : Organisation for Economic Co-operation and Development

PBT : Persistent, Bioaccumulative and Toxic

PC : Chemical product category

PT : Product type

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STP : Sewage Treatment Plant

SU : Sector of Use

TWA/STEL : Time-Weighted Average/Short Term Exposure Limit

UN : United Nations

VOC : Volatile Organic Compounds

vPvB : Very Persistent and Very Bioaccumulative

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3 : Flammable liquid, category 3.

Acute Tox. 4 : Acute toxicity, category 4.

Skin Irrit. 2 : Skin irritation, category 2.

Eye Irrit. 2 : Eye irritation, category 2.

Skin Sens. 1/1A/1B : Skin sensitization, category 1/1A/1B. Asp. Tox. 1 : Aspiration hazard, category 1.

Aquatic Chronic 1 : Hazardous to the aquatic environment — Chronic category 1.

Aquatic Chronic 2 : Hazardous to the aquatic environment — Chronic category 2.

Aquatic Acute 1 : Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

Number format : "," used as decimal separator.

End of safety data sheet.

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